

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An implantable mechanical device with adjustable geometry, comprising:

_____ •—— an input part (1) ~~having a first cylindrical end (11),~~
_____ •—— an output part (2), ~~having two second (21) and third (22) cylindrical ends,~~
~~which are opposite one another, and which are aligned, and where the second cylindrical end~~
~~(21) has a diameter equal to that of the said first cylindrical end (11),~~
_____ •—— a reference part (3) ~~having a fourth cylindrical end (31) of the same~~
~~diameter as the said third cylindrical end (22),~~
_____ •—— a transported part (4), having a helicoidal link (51, 52) with the said output
part (2),
_____ •—— means to apply an alternative rotational movement to said input part (1),
_____ means to block rotation of the said reference part (3) relatively to a part of the
organism and
_____ means to bind the said transported part (4) to a part of the organism,
wherein:
_____ •—— the said input part have a first cylindrical end (11)

•——the said output part have two second (21) and third (22) cylindrical ends,
which are opposite one another and which are aligned, and where the second cylindrical end (21)
has a diameter as the said third cylindrical end (22)

and the device further comprises:

•——means to hold the axes of the said first (11), second (21) and fourth (31)
cylindrical ends in alignment with the axes of the said helicoidal link (51, 52), and to hold
juxtaposed, firstly, the said first cylindrical end (11) and the said second cylindrical end (21) and,
additionally, the said third cylindrical end (22) and the said fourth cylindrical end (31), whilst
allowing rotation of the said input part (1) and of the said output part (2), relative to the said
reference part (3), around the said axis of the said helicoidal link (51, 52),

•——at least one first friction spring (7) having an unloaded internal diameter
slightly less than the common diameter of the said first (11) and second (21) cylindrical ends on
which it is mounted by force, so as to straddle them,

•——at least one second friction spring (8) wound in the opposite direction to
the winding of the said first friction spring (7), and having an unloaded internal diameter slightly
less than the common diameter of the said third (22) and fourth (31) cylindrical ends on which it
is mounted by force, so as to straddle them;

•——means to bind the said transported part (4) to a part of the organism,

•——means to apply an alternative rotational movement to the said input part (1) from
outside the organism;

•——means to block rotation of the said reference part (3) relatively to a part of the
organism.

Claim 2 (currently amended): A device according to claim 1, wherein the means to apply an alternative rotational movement to the said input part (1) ~~an alternative rotational movement from outside the organism~~ comprise means to link to at least one bone segment.

Claim 3 (currently amended): A device according to claim 1, wherein the means to apply an alternative rotational movement to the said input part (1) ~~from outside the organism~~ comprise means placed in the soft tissues.

Claim 4 (currently amended): A device according to claim 1, wherein the means to apply an alternative rotational movement to the said input part 1 ~~from outside the organism~~ comprise elastic means.

Claim 5 (currently amended): A device according to claim 2, wherein the means to apply an alternative rotational movement to the said input part 1 ~~from outside the organism~~ comprise elastic means.

Claim 6 (currently amended): A device according to claim 3, wherein the means to apply an alternative rotational movement to the said input part 1 ~~(1) from outside the organism~~ comprise elastic means.